Appln. No.: 10/075,150
Response dated May 1, 2006
Reply to Office Action mailed January 31, 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Harri Pekonen

Serial No.:	10/075,150		

Atty. Docket No.:	004770.00040
Group Art Unit:	2665
Examiner:	Justin M. Philpott
Confirmation No.:	6893

Filed: February 14, 2002

For: Time-slice signaling for broadband digital broadcasting

RESPONSE

MAIL STOP AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In response to the office action mailed January 31, 2006, applicant states:

The Claims are reflected in the Listing of Claims, which begins on page 2 of this paper.

Remarks/Arguments begin on page 11 of this paper.

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This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (previously presented): A time-slicing digital video broadcasting transmitter system comprising:

a buffer that receives at least one of digital video content and digital audio content from an information service provider;

an encapsulator that receives the buffered content from the buffer and that forms at least one packet header for a current packet of a current burst of packets, wherein the current packet contains a first portion of the buffered content, wherein the at least one packet header contains time-slice information that includes a time-slice parameter specifying a relationship between the current packet of the current burst of packets and a subsequent burst of packets that contains a second portion of the buffered content; and

a digital video broadcast transmitter that transmits the current burst of packets and the subsequent burst of packets, thereby allowing a digital-video-broadcast receiver to enter a reduced power-consumption state for a duration, which is based at least in part on the time-slice parameter, between receiving the current burst of packets and receiving the subsequent burst of packets.

Claim 2 (previously presented): The time-slicing digital broadcasting transmitter system of claim 1, wherein the time-slice information specifies, in a way that is independent of a number of data packet-transmission intervals, an amount of time that elapses between transmission of the current packet and transmission of a first-transmitted packet of the subsequent burst of packets.

Claim 3 (original): The time-slicing digital broadcasting transmitter system of claim 1, wherein the time-slice information specifies a time-slice duration for transmitting the current burst of packets.

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Claim 4 (original): The time-slicing digital broadcasting transmitter system of claim 1, wherein the time-slice information includes a time-slice index for numbering originally transmitted bursts of packets.

Claim 5 (original): The time-slicing digital broadcasting transmitter system of claim 1, wherein the buffer is substantially large enough to store at least two full bursts of data from the information service provider and any data to be transmitted between transmission of the two full bursts of data.

Claim 6 (original): The time-slicing digital broadcasting transmitter system of claim 5, wherein the amount of time that elapses between transmitting the current packet and transmitting the first-transmitted packet of the subsequent burst is determined based at least in part upon how many packets will be transmitted between transmitting the current packet and transmitting the subsequent packet.

Claim 7 (original): The time-slicing digital broadcasting transmitter system of claim 2, wherein the amount of time that elapses between transmitting the current packet and transmitting the first-transmitted packet of the subsequent burst is determined based at least in part upon an amount of transmitter-idle time between transmission bursts.

Claim 8 (original): The time-slicing digital broadcasting transmitter system of claim 1, wherein the buffer comprises a buffer selected from the group consisting of: an elastic buffer, a first-in, first-out (FIFO) buffer, a ring buffer, and a dual buffer having separate input and output sections.

Claim 9 (original): The time-slicing digital broadcasting transmitter system of claim 1, wherein the encapsulator places the time-slice information into lower layer protocol packet header bits.

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Claim 23 (original): The mobile terminal of claim 22, wherein the time-slice information is decoded from at least one byte reserved, but not used, for media access control addressing.

Claim 24 (previously presented): A time-slicing digital video broadcasting system comprising:

a digital video broadcast transmitter system that transmits bursts of packets, including a current burst of packets and a subsequent burst of packets, wherein the current burst of packets includes a current packet that includes at least one of digital video content and digital audio content from at least one data service of at least one information service provider and that includes time-slice information that specifies a relationship between the current packet of the current burst of packets and the subsequent burst of packets; and

a digital video broadcast receiver system that receives the current burst of packets and the subsequent burst of packets and that decodes the time-slice information thereby extracting information that specifies the relationship between the current packet and the subsequent burst of packets, thereby allowing the digital video broadcast receiver system to enter a reduced power-consumption state for a duration, which is based at least in part on the extracted information, between receiving the current burst of packets and receiving the subsequent burst of packets.

Claim 25 (previously presented): The time-slicing digital broadcasting system of claim 24, wherein the time-slice information specifies, in a way that is independent of a number of data packet-transmission intervals, an amount of time between transmitting the current packet and a first-transmitted packet of the subsequent burst of packets.

Claim 26 (original): The time-slicing digital broadcasting system of claim 25, wherein the subsequent burst of packets is a copy of the current burst of packets.

Claim 27 (original): The time-slicing digital broadcasting system of claim 24, wherein the transmitter comprises an encapsulator that places the time-slice information into lower layer protocol packet header bits.

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